

ERP29 Polyclonal Antibody

Catalog Number **PA3-011**

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Bovine, Dog, Guinea pig, Hamster, Human, Mouse, Non-human primate, Rat
Host/Isotope	Rabbit / IgG	Published species	Rat
Class	Polyclonal	Tested Applications	
Type	Antibody	Dilution *	
Immunogen	6-histidine epitope tagged full length recombinant rat ERp29.	Immunoprecipitation (IP)	1:500
Conjugate	Unconjugated	Western Blot (WB)	1 µg/mL
Form	Liquid	Immunocytochemistry (ICC/IF)	1:500
Concentration	Conc. Not Determined	Published Applications	
Storage buffer	whole serum	Immunocytochemistry (ICC/IF)	See 1 publications below
Contains	0.02% sodium azide	Western Blot (WB)	See 2 publications below
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	

Product specific information

PA3-011 detects ERp29 protein in rat, mouse, hamster, canine, human, non-human primate, bovine and guinea pig samples. PA3-011 has successfully been used in immunofluorescence, immunoprecipitation and Western blot procedures. By Western blot, this antibody detects an ~29 kDa protein representing ERp29 in rat liver homogenate. Immunofluorescence data demonstrates that ERp29 is localized to the ER of rat thyrocytes using PA3-011. The PA3-011 immunogen was a 6-histidine epitope tagged full length recombinant ERp29 protein.

Background/Target Information

This gene encodes a reticuloplasmin, a protein which resides in the lumen of the endoplasmic reticulum. The protein shows sequence similarity to the protein disulfide isomerase family. However, it lacks the thioredoxin motif characteristic of this family, suggesting that this protein does not function as a disulfide isomerase. The protein dimerizes and is thought to play a role in the processing of secretory proteins within the ER. Alternative splicing results in multiple transcript variants encoding different isoforms.

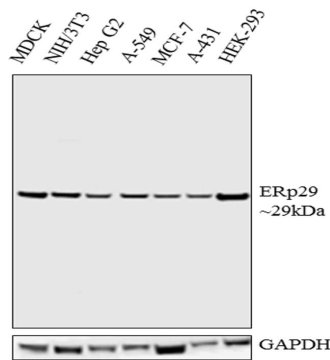
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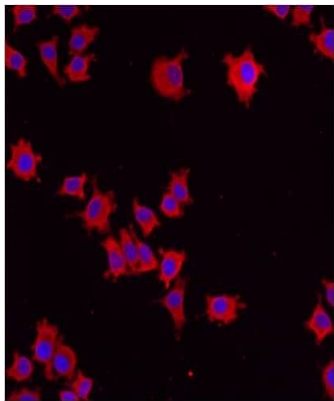
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Product Images For ERp29 Polyclonal Antibody



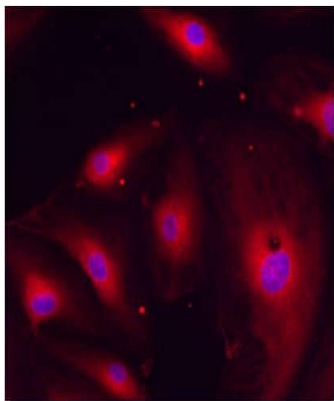
ERp29 Antibody (PA3-011) in WB

Western blot analysis was performed on membrane enriched extracts (30 µg lysate) of MDCK (Lane 1), NIH/3T3 (Lane 2), Hep G2 (Lane 3), A-549 (Lane 4), MCF-7 (Lane 5), A-431 (Lane 6) and HEK-293 (Lane 7). The blot was probed with Anti-ERp29 Rabbit polyclonal Antibody (Product # PA3-011, 1 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 29 kDa band corresponding to ERp29 was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



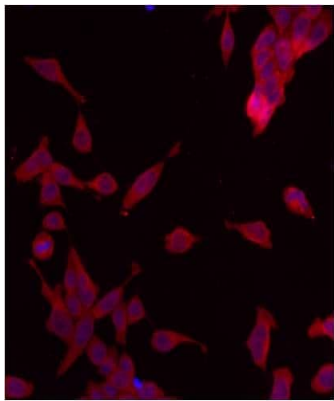
ERp29 Antibody (PA3-011) in ICC/IF

Immunofluorescent analysis of ERp29 using anti-ERp29 polyclonal antibody (Product # PA3-011) shows staining in NS-1 Cells.



ERp29 Antibody (PA3-011) in ICC/IF

Immunofluorescent analysis of ERp29 using anti-ERp29 polyclonal antibody (Product # PA3-011) shows staining in HMVEC Cells.



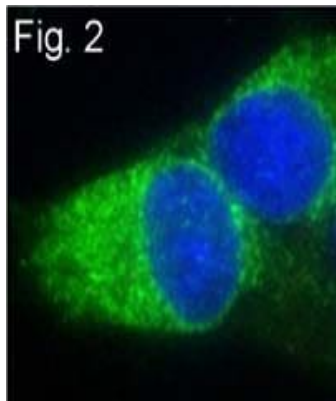
ERp29 Antibody (PA3-011) in ICC/IF

Immunofluorescent analysis of ERp29 using anti-ERp29 polyclonal antibody (Product # PA3-011) shows staining in p19 Cells.

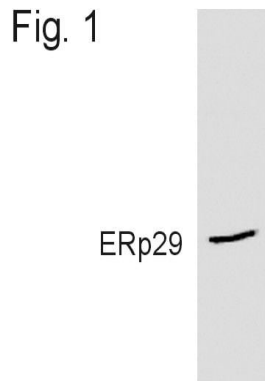
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ERP29 Antibody (PA3-011) in ICC/IF
Immunofluorescence of ERp29 in rat thyrocytes using Product # PA3-011



ERP29 Antibody (PA3-011) in WB
Western blot of ERp29 in HEK cell lysate using Product # PA3-011

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PubMed References For ERP29 Polyclonal Antibody

1 Immunocytochemistry References

Species / Dilution	Summary
	PA3-011 was used in immunocytochemistry to study the co-translational secretion of proteins synthesized in peripheral nerve axons
Rat / 1:200	Neuroscience bulletin (2013; 29: 493) "Peripheral nerve axons contain machinery for co-translational secretion of axonally-generated proteins." Author(s):Merianda T,Twiss J PubMed Article URL: http://dx.doi.org/10.1007/s12264-013-1360-9

2 Western Blot References

Species / Dilution	Summary
	PA3-011 was used in western blot to investigate the independence of PERK activation from unfolded nascent proteins
Rat / 1:2500	Neuroscience (2010; 169: 1307) "PKR-like endoplasmic reticulum kinase (PERK) activation following brain ischemia is independent of unfolded nascent proteins." Author(s):Sanderson TH,Deogracias MP,Nangia KK,Wang J,Krause GS,Kumar R PubMed Article URL: http://dx.doi.org/10.1016/j.neuroscience.2010.05.076
	PA3-011 was used in western blot to study the different regulation of cell death in aged atrophy and un-load atrophy in rat skeletal muscle
Rat / 1:2000	Mechanisms of ageing and development (2009; 130: 328) "Differential cell death regulation between adult-unloaded and aged rat soleus muscle." Author(s):Ogata T,Machida S,Oishi Y,Higuchi M,Muraoka I PubMed Article URL: http://dx.doi.org/10.1016/j.mad.2009.02.001

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